

What is claimed is:

- 5 1. A contact lens, comprising at least one surface comprising a design wherein a peak pressure is reduced.
2. The lens of claim 1, further comprising at least one iso-thickness vertical profile in a mid-peripheral area of the lens.
- 10 3. The lens of claim 1, further comprising a surface having at least two curves of different slopes with a junction therebetween, wherein the slopes of the curves at the junction are equal.
4. The lens of claim 1, wherein the Young's modulus is about 40 psi or greater.
- 15 5. The lens of claim 2, wherein the Young's modulus is about 40 psi or greater.
6. The lens of claim 3, wherein the Young's modulus is about 40 psi or greater.
- 20 7. The lens of claim 1, 2, 3, 4, 5, or 6 further comprising rotational stabilization.
- 25 8. The lens of claim 7, wherein the rotational stabilization comprises two symmetrically lying regions in the lens' periphery in which the lens' thickness is reduced as compared to the remainder of the lens periphery.

9. The lens of claim 8, wherein the lens is a toric lens.

5 10. A method of designing a contact lens, comprising the step of
providing at least one surface wherein a peak pressure is reduced.

11. The method of claim 10, further comprising the step of providing at
least one iso-thickness vertical profile in a mid-peripheral area of the lens.

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12. The method of claim 10, further comprising the step of providing a
surface having at least two curves of different slopes with a junction therebetween,
wherein the slopes of the curves at the junction are equal.